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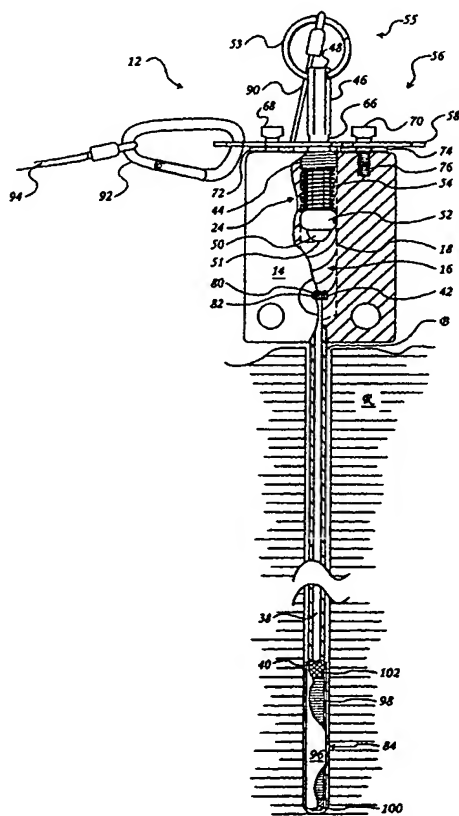
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(54) Title: HANDHELD TOOL FOR BREAKING UP ROCK



(57) Abstract: A tool (12) has a body (14) with a barrel (18) having oppos-
ing threaded and fitted openings (30 and 28). An actuator pin tube (26), for
slidably engaging an actuator pin (38) having a tip (40) opposing a retention
head (42), extending from the fitted opening (30). A spring assembly (24),
disposed in the barrel (18), has a hammer guide (44) engaged in the threaded
opening (28) with a hammer (46) slidably engaged therein, a handle mech-
anism (55) disposed at one end and a spring retainer (52) disposed adjacent
the other end of the hammer (46) before a hammerhead (51), and a spring
(54) engaged between the hammer guide (44) and the spring retainer (52).
A release mechanism (56) engages the hammer (46). A kit (108) containing
the tool (12) and a method of operating the tool (12) involving drilling and
cleaning a borehole, inserting a cartridge and tool therein, and detonating
the load remotely using a pull cord.